Docket No.: S&ZFH020501

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : JÜRGEN HERRE ET AL.

Filed : CONCURRENTLY HEREWITH

Title : APPARATUS FOR ANALYZING AN AUDIO SIGNAL WITH

REGARD TO RHYTHM INFORMATION OF THE AUDIO SIGNAL

BY USING AN AUTOCORRELATION FUNCTION

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## Sir:

In accordance with 37 C.F.R. 1.98 copies of the following patents and/or publications are submitted herewith:

U.S. Patent No. 5,918,223 (Blum et al.), dated June 29, 1999;

U.S. Patent No. 4,964,167 (Kunizawa et al.), dated October 16, 1990 and corresponding German Published Non-Prosecuted Patent Application DE 38 23 724 A1 (Kunizawa et al.), dated February 2, 1989;

PCT WO 93/24923 (Todd), dated December 9, 1993;

Patent Abstract of Japan 09293083 A (Kazuyo), dated November 11, 1997;

Tolonen, T. et al.: "A Computationally Efficient Multipitch Analysis Model", IEEE Transactions on Speech and Audio Processing, Vol. 8, No. 6, November 2000, pp. 708-716;

Goto, M. et al.: "Real-Time Beat Tracking for Drumless Audio Signals: Chord Change Detection for Musical Decisions", Speech Communication, Elsevier Science B.V., Vol. 27, 1999, pp. 311-335;

Scheirer, E. D.: "Tempo and Beat Analysis of Acoustic Musical Signals", Acoustical Society of America, Vol. 103, No. 1, January 1998, pp. 588-601;

Brown, J. C.: "Determination of the Meter of Musical Scores by Autocorrelation", The Journal of the Acoustical Society of America, Acoustical Society of America, Vol. 94, No. 4, October 1993, pp. 1953-1957;

Scheirer, E. D.: "Pulse Tracking With a Pitch Tracker", IEEE ASSP Workshop on New Paltz, October 19, 1997, four pages;

International Search Report, dated November 26, 2002.

If no translation of pertinent portions of any foreign language patents or publications mentioned above is included with the aforementioned copies of those applications, patents and/or publications, it is because no existing translation is readily available to the applicant. As per the Notice in 1273 OG 55 (August 5, 2003) no copies of any above-mentioned U.S. patents and U.S. patent application publications are submitted for any application filed after June 30, 2003.

Respectfully submitted

i Oi Applicarits

Date: November 14, 2003

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LAURENCE A. GREENBERG REG. NO. 29,308

FORM PTO-1449 (SUBSTITUTE)  U.S. DEPARTMENT OF COMMERCE				Attorney Docket No.: S&ZFH020501 Appl. No.:					
PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE  STATEMENT BY APPLICANT				Applicant: JÜRGEN HERRE ET AL.					
(37 CFR 1.98(b))				Filing Date: November 14, 2003 Group Art Unit:					
EXAMINER INITIALS		PATENT NO.	DATE	PATENTEE	CLASS	SUB	FILING DATE		
	Α	5,918,223	6/29/99	Blum et al.					
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	J	38 23 724 A1	2/2/89	Germany					
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- W-18/		Tolonen, T. et al.: "A Computationally Efficient Multipitch Analysis Model", IEEE Transactions on Speech and Audio Processing, Vol. 8, No. 6, November 2000, pp. 708-716;							
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		Scheirer, E. D.: "Tempo and Beat Analysis of Acoustic Musical Signals", Acoustical Society of America, Vol. 103, No. 1, January 1998, pp. 588-601						
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)											
-		Scheirer, E. D.: "Pulse Tracking With a Pitch Tracker", IEEE ASSP Workshop on New Paltz, October 19, 1997, four pages									
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